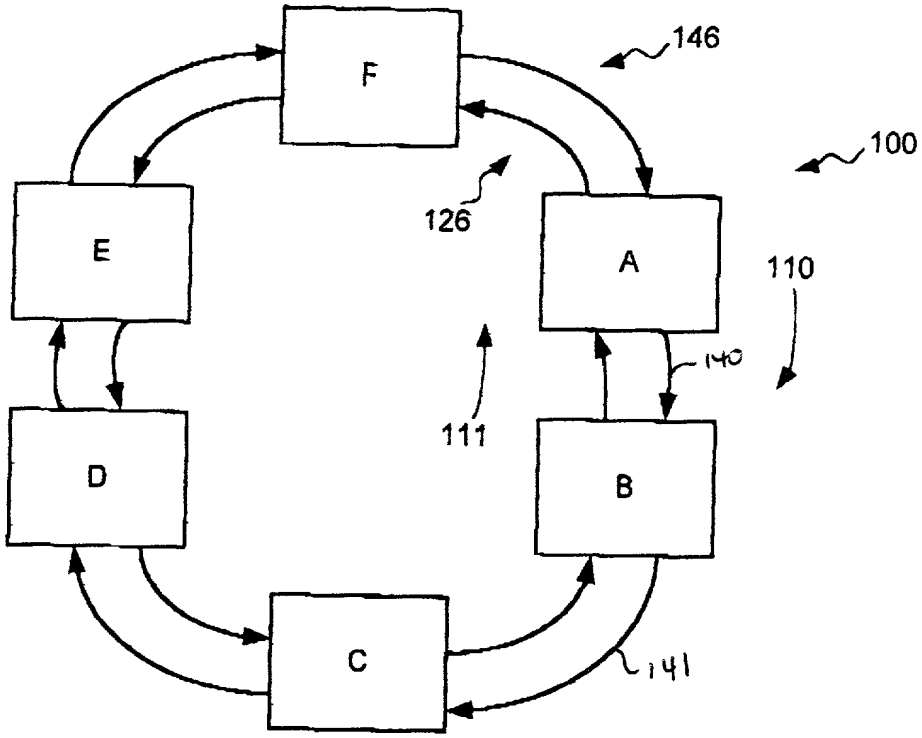


Fig. 1

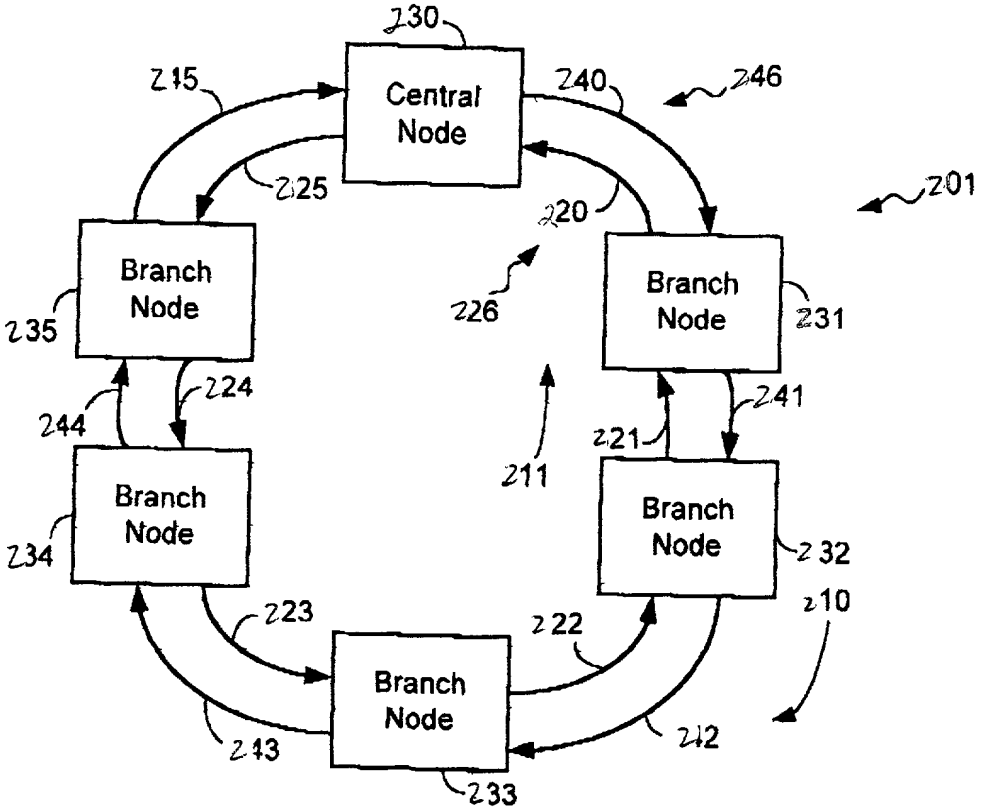

230
215
Central Node
240
246
225
201
220
Branch Node
235
226
Branch Node
231
224
241
244
221
211
Branch Node
234
Branch Node
232
223
222
210
Branch Node
243
242
233

Fig. 2

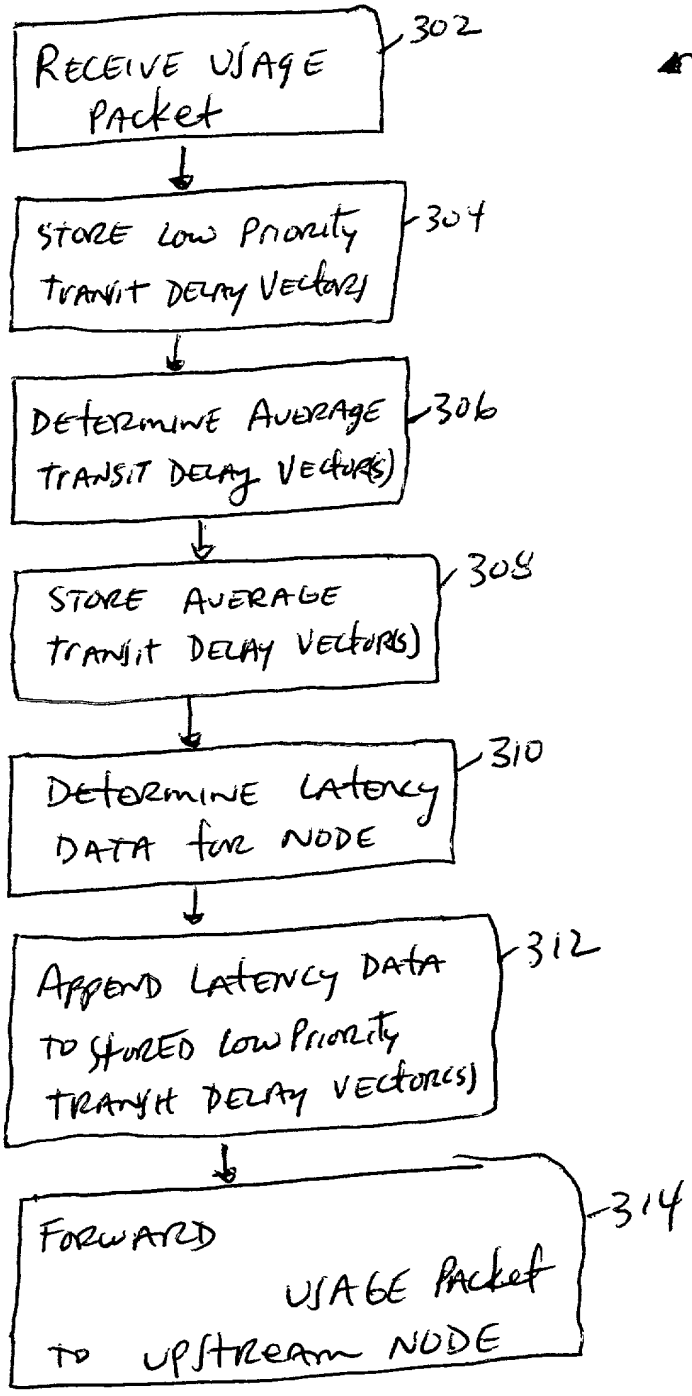

RECEIVE USAGE PACKET
302
300
STORE LOW PRIORITY TRANSIT DELAY VECTOR(S)
304
DETERMINE AVERAGE TRANSIT DELAY VECTOR(S)
306
STORE AVERAGE TRANSIT DELAY VECTOR(S)
308
DETERMINE LATENCY DATA FOR NODE
310
APPEND LATENCY DATA TO STORED LOW PRIORITY TRANSIT DELAY VECTOR(S)
312
FORWARD USAGE PACKET TO UPSTREAM NODE
314

FIG. 3a

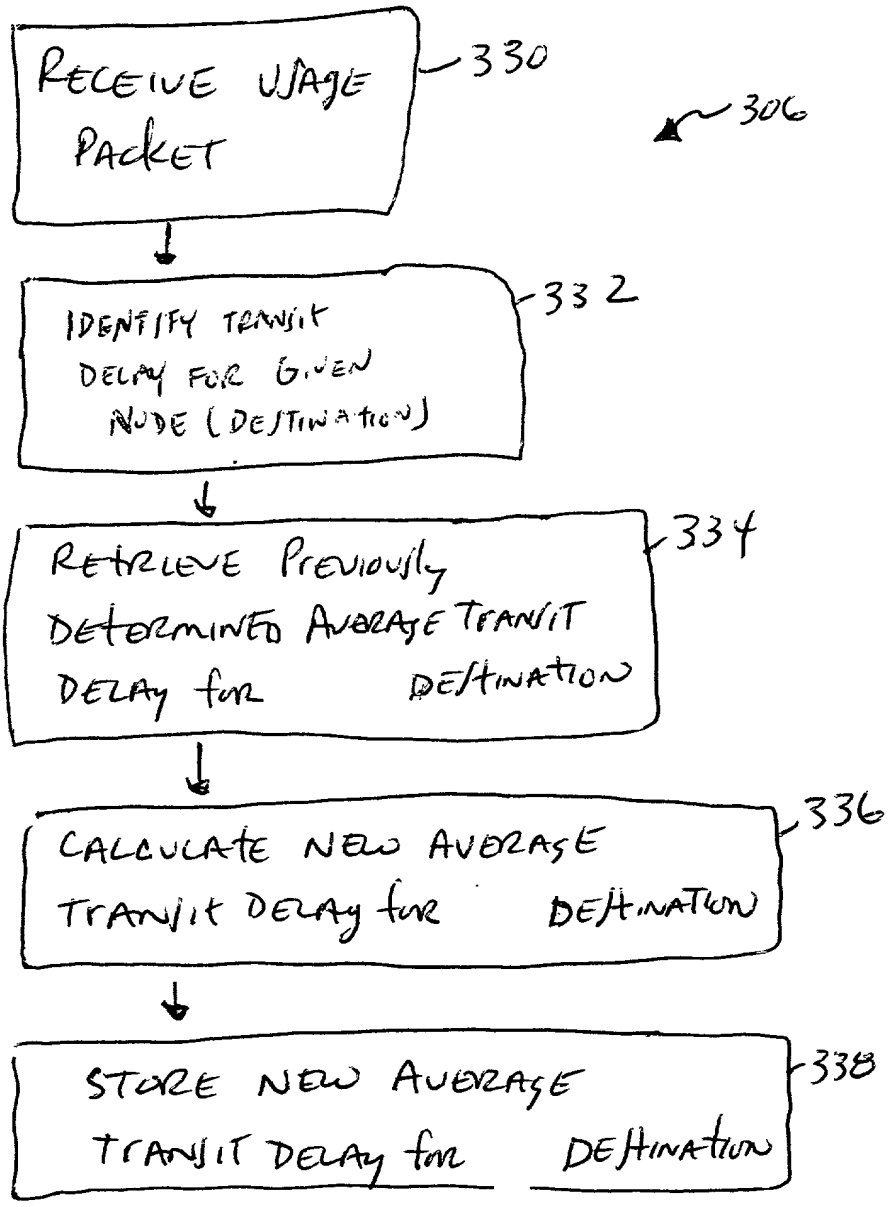

RECEIVE USAGE PACKET
330
306
IDENTIFY TRANSIT DELAY FOR GIVEN NODE (DESTINATION)
332
RETRIEVE PREVIOUSLY DETERMINED AVERAGE TRANSIT DELAY FOR DESTINATION
334
CALCULATE NEW AVERAGE TRANSIT DELAY FOR DESTINATION
336
STORE NEW AVERAGE TRANSIT DELAY FOR DESTINATION
338

FIG. 3b

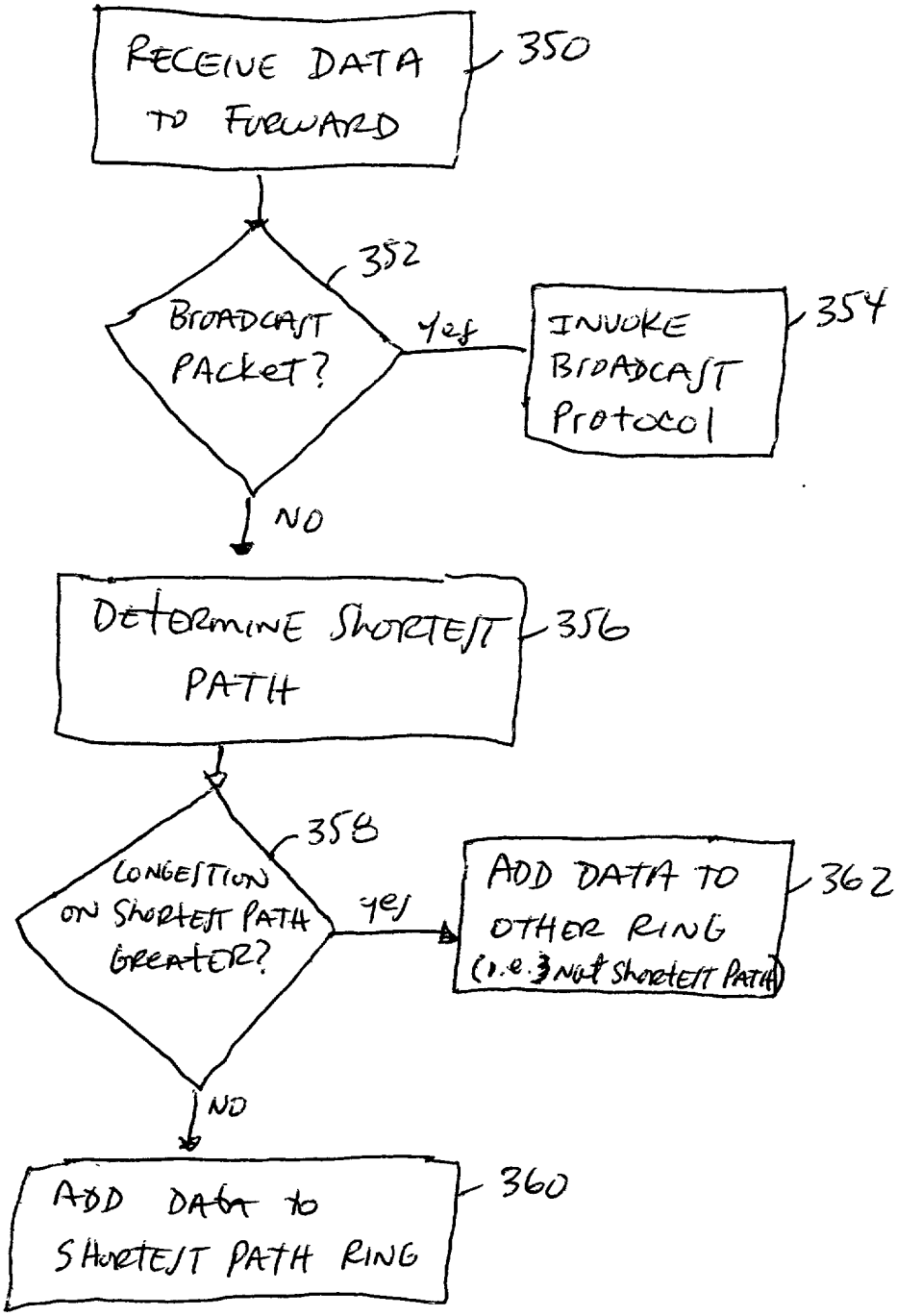
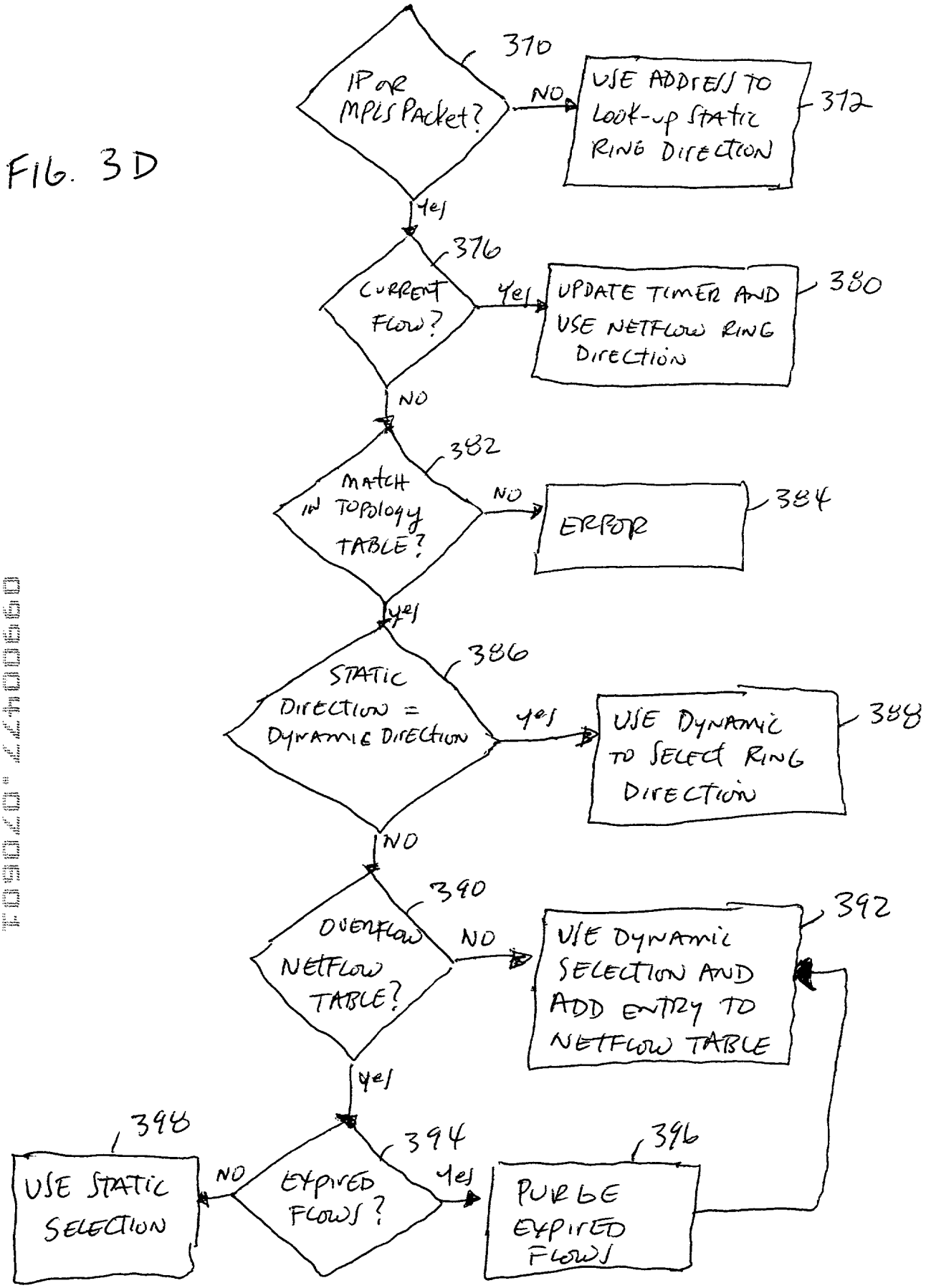

RECEIVE DATA TO FORWARD
350
BROADCAST PACKET?
352
Yes
INVOKE BROADCAST Protocol
354
NO
DETERMINE SHORTEST PATH
356
CONGESTION ON SHORTEST PATH GREATER?
358
yes
ADD DATA TO OTHER RING (i.e. NOT SHORTEST PATH)
362
NO
ADD DATA TO SHORTEST PATH RING
360

FIG. 3c

FIG. 3D



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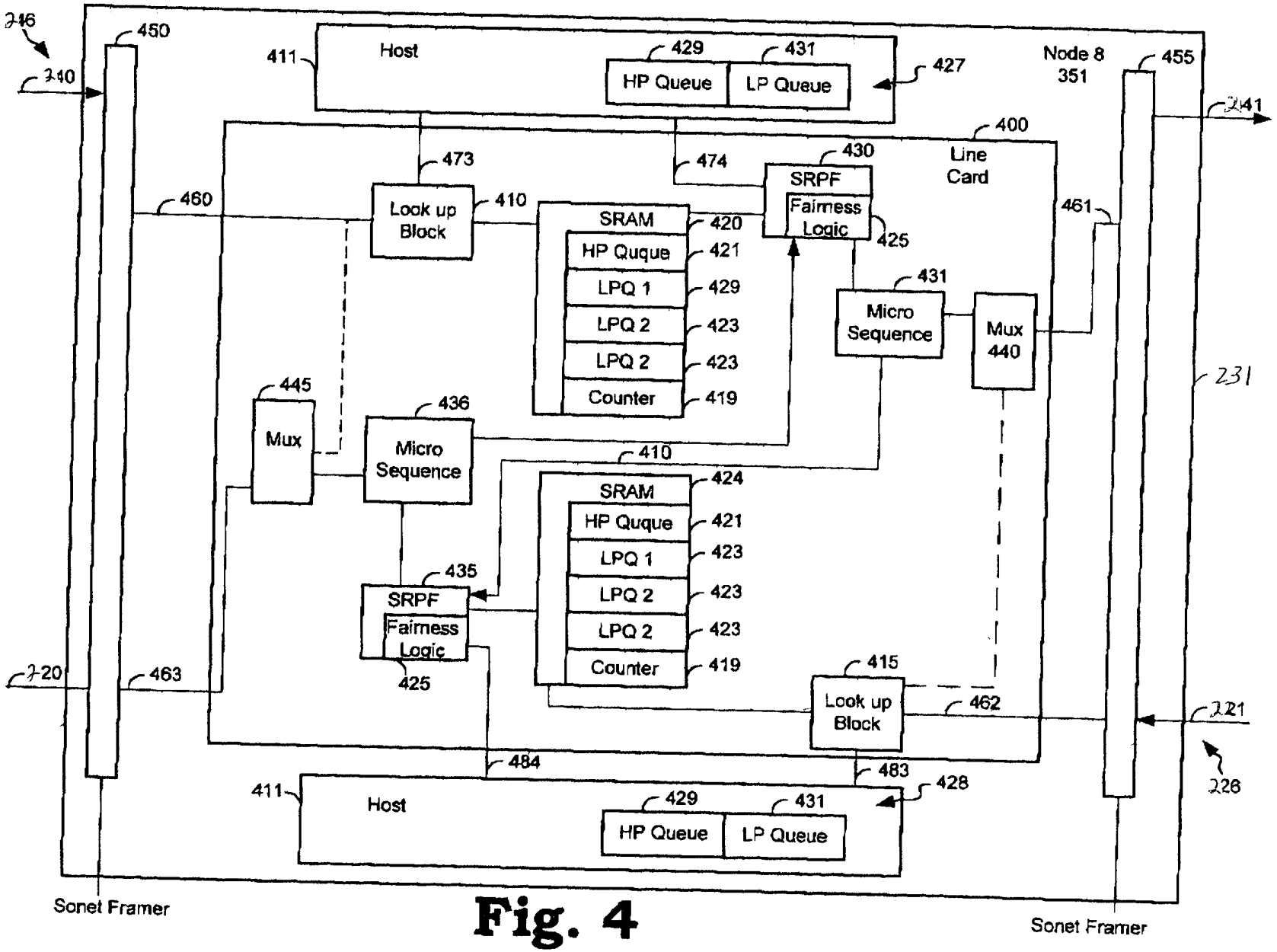

Fig. 4

502 ADDRESS (MAC, IP)	504 HOP COUNT INNER	506 HOP COUNT OUTER	508 LATENCY INNER	510 LATENCY OUTER	512 STATIC RING DIRECTION	514 DYNAMIC RING DIRECTION
12.23.46	10	8	1234	1456	I	O
12.23.47	9	9	1200	1400	I	I

FIG. 5